

Red beryl

Also known as bixbite, but that name is sometimes confused with bixbyite which is a manganese iron oxide.



Rare Gemstones for Wise Investments!

Red Beryl is commonly called “Red Emerald” and had limited production of gem quality stunning beauties! Red Beryl is a variety from the Beryl family of gemstones where we also find Blue Aquamarine; March’s birthstone, Green Emeralds; May’s Birthstone, and a wide variety of other colors from colorless to yellows to light greens! Red Beryl came mostly from Utah and only survived mining from its discovery in 1958 until the late 1990’s.

This gemstones sells from a few hundred a carat all the way up to \$20,000 a carat for the finest. It is definitely a gemstone that warrants wearing around the neck or on the ears due to its rarity. Red Beryl comes in distinct purple-red to orange red to red! Mostly it comes in low quality of translucent to

opaque and rarely transparent. There are manmade Red Beryl coming out of Russia so be very careful where you purchase your Rare Red Beryl.

The Diamond Vault of Troy can help you in assembling rare gemstones, and rare colored diamonds to help your investment portfolio has some more stability. Our Graduate Gemologist has the experience in Red Beryl, rare collector gemstones, and is considered a natural colored diamond expert having owned 60 colored diamonds and growing!

248-244-0600

Ask for Peter-John Parisis, Graduate Gemologist

Properties & Cutting Information

Hardness (Mohs): 7.5-8.0

Crystal System: Hexagonal

Luster: Vitreous

Formula: $\text{Be}_3\text{Al}_2\text{Si}_6\text{O}_{18}$

Class: cyclosilicates

Specific Gravity: 2.66 – 2.70

Index of Refraction: 1.567 – 1.580

Birefringence: 0.004 – 0.008

Pleochroism: distinct, purple-red/orange-red to red

Colors: orangy-red to red to purple-red

Transparency: translucent to opaque, very rarely transparent

Cleavage: indistinct basal cleavage is seldom visible on {0001}

Fracture: conchoidal producing smooth brilliant surfaces, brittle

Streak: white

Ultraviolet Fluorescence: – None

Spectrum Absorption: weak at 430 nm band & strong broad bands centered at 500 and 570 nm

Cutting: Faceted stones – the crystals can have an hour glass zoning – cutting tables oriented parallel to the C-Axis usually appear red or purplish red and usually for maximum yield requires

a rectangular shape. Table faceted oriented perpendicular to the C-Axis appear more orangy red for maximum yield requires a round or oval shape¹.

Locations

USA

1. **New Mexico** – Sierra Co., Paramount Canyon, Beryllium Virgin claim – the site is located 400 yards south of NM State Route 59, about 4 miles west of Boiler Peak.

Latitude: 33°25'35"N

Longitude: 107°57'45"W

2. **New Mexico**, - Sierra Co., Taylor Creek Tin District (Black Range Tin District)

Latitude: 33°18'36"N

Longitude: 107°54'38"W

3. **Utah** – Wah Wah Mountains, Beaver Co., Ruby Violet claims (Violet mine; Red Emerald)
4. **Utah** – Thomas Range, Juab Co., Maynard's claim (Pismire Knolls)
5. **Utah** – Thomas Range, Juab Co., Solar Wind claim
6. **Utah** – Thomas Range, Juab Co., Starvation Canyon (Searles Canyon) – This site is the south end of the Thomas Range about 1 mile NW of the famed Topaz Mountain collection site. Follow the dry stream bed NE from where it intersects the Brush Wellman mine road.
7. **Utah** – Thomas Range, Juab Co., Holfertite pit, Starvation Canyon (Searles Canyon)
8. **Utah** – Topaz Mountain, Thomas Range, Juab Co., The Cove (Topaz Valley)
9. **Utah** – Thomas Range, Juab Co., Wild Horse Springs (Wildhorse Springs)

MEXICO – San Luis Potosi

Great Articles:

Gem-Quality Red Beryl From the Wah Wah Mountains, Utah, Gems & Gemology, Winter, 1984, Page 208-221

The 24th International Gemmological Conference: Beryl, Gems & Gemology, Winter, 1993, Page 292

Colored Stones and Organic Gem Materials: Red Beryl, Gems & Gemology, Winter, 1995, Page 276

Red Beryl, Gems & Gemology, Fall, 1999, Page 140

Hydrothermal Synthetic Red Beryl from the Institute of Crystallography, Moscow, Gems & Gemology, Spring, 2001, Page 43-55

Red Beryl From Utah: A Review and Update, Gems & Gemology, Winter, 2003, Page 302-313

¹ Shigley, James E., Thompson, Timothy J., and Keith, Jeffrey D., *Red Beryl From Utah*, Gems & Gemology, Winter 2003, Page 302-313.

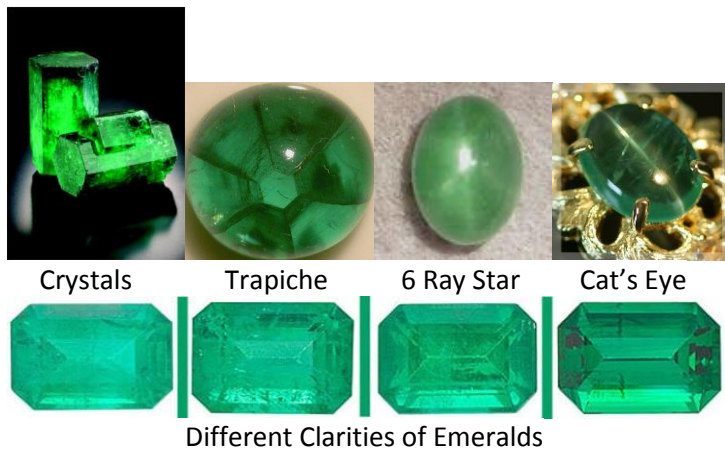
Family – Beryl – Facts

Beryl is a common mineral containing the rare element *beryllium*. Color variety:

Aquamarine – Sky blue to bluish-green



Emerald – Green gem variety



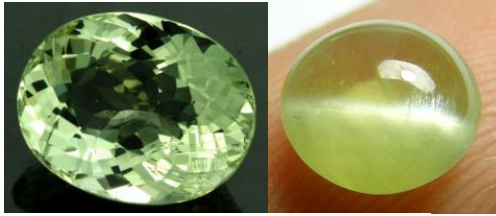
Golden Beryl – Golden yellow to orangy-yellow



Goshenite – Colorless or white variety



Green Beryl – pale green variety



Green Beryl

Cat's Eye

Heliodor – Greenish-yellow to yellow



Crystal Heliodor

Cat's Eye

Morganite – Pink to light purple variety



Different shades of morganite

Pezzottaite – raspberry-red



Pezzottaite

Cat's Eye